

**Invitation for Public Comment on the List of Nominated Candidates for the
EPA Science Advisory Board Scientific and Technological Achievement Awards
Committee Augmented for 2011**

May 13, 2011

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a *Federal Register* Notice (Volume 76, Number 9, Pages 2373 – 2374) published on January 13, 2011 that it was augmenting and soliciting expertise on the SAB Scientific and Technological Achievement Awards (STAA) Committee. The SAB Staff Office sought public nominations of nationally and internationally recognized scientists and engineers with experience and expertise in the following areas: environmental and human health sciences, ecology, risk assessment, environmental engineering, environmental lifecycle or systems analysis, and in environmental sustainability fields such as in green chemistry, green technologies, and green building design. The augmented STAA Committee will review scientific publications nominated by EPA managers and make recommendations to the Administrator for recognition and awards.

Below is the list of nominated candidates that is based solely on relevant expertise and willingness to serve on the Panel. We hereby invite comments on the attached List of Candidates that the SAB Staff Office should consider in the formation of this Augmented Committee. Please be advised that comments received are subject to release under the Freedom of Information Act. Comments should be submitted to the attention of Mr. Edward Hanlon, Designated Federal Officer, no later than June 3, 2011. E-mailing comments (hanlon.edward@epa.gov) is the preferred mode of receipt.

The SAB Staff Office Director will make the final decision about who will serve on the Panel based on all relevant information. This includes a review of the confidential disclosure form (EPA Form 3110-48) and information gathered by staff and public comments. For the EPA SAB Staff Office, a balanced Panel is characterized by inclusion of candidates who possess the necessary domains of knowledge, the relevant scientific perspectives (which, among other factors, can be influenced by work history and affiliation), and the collective breadth of experience to adequately address the general charge. Specific criteria to be used in evaluating a candidate include: a) scientific and/or technical expertise, knowledge, and experience; b) availability and willingness to serve; c) absence of financial conflicts of interest; d) absence of appearance of a lack of impartiality; e) skills working in committees, subcommittees, and advisory panels; and, for the panel as a whole, f) diversity of scientific expertise and viewpoints.

Ashford, Nicholas

Massachusetts Institute of Technology

Nicholas Ashford is Professor of Technology and Policy at the Massachusetts Institute of Technology, where he teaches courses in Environmental Law, Policy, and Economics; Law, Technology, and Public Policy; and Sustainability, Trade and Environment. Dr. Ashford is a Faculty Associate of the Center for Technology, Policy and Industrial Development in the School of Engineering; the Institute for Work and Employment Research in the Sloan School of Management; and the Environmental Policy Group in the Urban Studies Department. He holds both a Ph.D. in Chemistry and a Law Degree from the University of Chicago, where he also received graduate education in Economics. Dr. Ashford also is visiting scientist in Occupational and Environmental Health at the Harvard School of Public Health and teaches intensive courses in Sustainable Development, and European & International Environmental Law at Cambridge University, UK and at the Cyprus University of Technology. Dr. Ashford was a public member and chairman of the National Advisory Committee on Occupational Safety & Health, served on the EPA Science Advisory Board, and was chairman of the Committee on Technology Innovation & Economics of the EPA National Advisory Council for Environmental Policy and Technology. Dr. Ashford is a Fellow of the American Association for the Advancement of Science and former chair of its Section on Societal Impacts of Science and Engineering. He served as an advisor to the United Nations Environment Programme and is also a member of the editorial board of the Journal of Cleaner Production and the Journal of Environmental Technology and Management. He currently serves as co-chair of the US-Greece Council for the Initiative on Technology Cooperation with the Balkans. Dr. Ashford's research interests include sustainability, trade and environment; regulatory law and economics; the design of government policies for encouraging both technological innovation, and improvements in health, safety and environmental quality; pollution prevention and cleaner/inherently safer production; labor's participation in technological change; and environmental justice. He has developed methodologies for decision-making in the regulation of chemicals and has extensively investigated the effects of regulation on technological innovation in the chemical, pharmaceutical, and automobile industries. Dr. Ashford's research activities include work for the United Nations Environment Programme, the OECD, and the European Union, as well as for U.S. regulatory agencies and the U.S. Office of Technology Assessment. <http://web.mit.edu/ctpid/www/tl/>.

Brown, Ronnie

University of Baltimore

Mr. Ronnie L. Brown is currently Coordinator of Developmental Mathematics at University of Baltimore, and also is a Doctoral Candidate (ABD) at Morgan State University in Baltimore, Maryland, studying Modeling 1-D Radial Movement in Aquifers through Partial Differential Equations. He holds a B.S. in Industrial Engineering from Morgan State University (2004), an M.S. in Environmental Science from Johns Hopkins University (2006), and is currently pursuing doctoral work (ABD) in Civil/Environmental Engineering at Morgan State University. Mr. Brown's educational and professional focus is in industrial engineering, civil engineering, mathematics, and environmental science, and also has taken several graduate level courses in applied mathematics. He has served as an instructor in mathematics for over seven years at various colleges and universities in the Baltimore MD area, and has worked as an engineer for the Baltimore County Department of Public Works, and an engineering consultant for Khafra Engineering in Baltimore and Aerosol Monitoring & Analysis Company in Hanover, MD. Mr. Brown has also served as an Engineering Technician for the Department of the Army in Project Management for a weapons mobility unit. He is a member of National Association of Environmental Professionals, American Society of Civil Engineers, and American Mathematical Association.

Cooper, William

University of California, Irvine

Dr. William J. Cooper is a Professor of Civil and Environmental Engineering at the University of California, Irvine, and Director of UC-Irvine's Urban Water Research Center. He holds a B.S. in Chemistry from Allegheny College, Meadville, PA (1969), an M.S. in Fuel Science/Organic Geochemistry from the Pennsylvania State University (1971), and a Ph.D. in Marine and Atmospheric Chemistry from the University of Miami, FL (1987). Dr. Cooper's research interests include: chlorine chemistry and analysis in water, carbon cycling in natural waters; the treatment, fate and transport of pharmaceuticals in water; and the development of ozone as a treatment process in ballast water of ships to prevent the spread of invasive species. He has published more than 175 papers on water chemistry and water quality issues. He has served on two National Research Council panels within the Water Science and Technology Board, of the National Academies. Dr. Cooper currently serves on committees of the International Atomic Energy Agency and is a member of the Research Council of the Water Environment Research Foundation. He is a member of the Board of Directors of the Association of Environmental Engineers and Science Professors. He serves on the Research Advisory Board of the National Water Research Institute Research. He is also on the Board of Directors of the Pacific Marine Mammal Center.

Daston, George

Procter & Gamble Company

Dr. George Daston is Victor Mills Society Research Fellow at the Procter & Gamble Company. He has published over 100 articles and book chapters and edited five books in toxicology and risk assessment. He holds a B.S. in Biology (1978) and a Ph.D. in Developmental Biology and Teratology (1981) from the University of Miami, Coral Gables, Florida. Dr. Daston's current research efforts are in the areas of toxicogenomics and mechanistic toxicology, particularly in addressing how findings in these fields can improve risk assessment for chemicals and the development of non-animal alternatives. He has served as President of the Teratology Society, Councilor of the Society of Toxicology, on the EPA Board of Scientific Counselors, National Toxicology Program Board of Scientific Counselors, National Research Council's Board of Environmental Studies and Toxicology, and National Children's Study Advisory Committee. Dr. Daston is Editor-in-Chief of Birth Defects Research: Developmental and Reproductive Toxicology. He manages the AltTox website, which is devoted to the exchange of scientific information leading to the development of in vitro replacements for toxicity assessments. Dr. Daston has been awarded the Josef Warkany Lectureship by the Teratology Society, the George H. Scott Award by the Toxicology Forum, and was elected a Fellow of the American Association for the Advancement of Science. Dr. Daston is an adjunct Professor of Pediatrics at University of Cincinnati.

Ducoste, Joel

North Carolina State University

Dr. Joel Ducoste is a Professor in the Civil, Construction, and Environmental Engineering Department at North Carolina State University. He holds a B.S. (1988) and M.Eng. (1989) in Mechanical Engineering from Rensselaer Polytechnic Institute, and a Ph.D. in Environmental Engineering (1996) from the University of Illinois at Urbana-Champaign. Dr. Ducoste is a national and international recognized expert in modeling water and wastewater treatment processes using Computational Fluid Dynamics (CFD). His current research interests include physico-chemical processes in water treatment, computational fluid dynamics modeling, solid/liquid separation processes, chemical and UV disinfection, advance oxidation, water/wastewater process optimization, and wastewater sewer collection system sustainability. Dr. Ducoste has served on advisory committees such as the American Water Works Association (AWWA) Particulate committee, AWWA project advisor for research projects funded by AWWA, NSF graduate fellowship awards committee, and International Population Balance Model scientific and organizing committees. He has also served on the North Carolina House of Representatives Special Committee on Offshore Energy Exploration Study. Dr. Ducoste currently serves as an Associate Editor for American Association of Civil Engineers (ASCE) Journal of Environmental Engineering and is a board member of the North Carolina Fulbright Association and the U.S. Environmental Protection Agency Science Advisory Board Drinking Water Committee. He also serves on the Water Environment Federation (WEF) FOG Sewer Collection sub-committee. Dr. Ducoste is a member of AWWA, International Ultraviolet Association (IUVA), and Association of Environmental Engineering and Science Professors.

Duke, Clifford

The Ecological Society of America (ESA)

Dr. Clifford Duke directs the Office of Science Programs for The Ecological Society of America (ESA), which promotes the continued development of ecological science and its integration into decision-making and education. He holds a B.A. in Biology and Environmental Studies from the University of Vermont (1977), and an M.A. in Public Policy Science (1986) and a Ph.D. in Botany (1985) from Duke University. Dr. Duke has expertise in ecological science and risk assessment, environmental project management, and policy analysis. The ESA Science Office, which originated with ESA's Sustainable Biosphere Initiative in 1992, focuses on the application of ecological science to environmental problem solving. To that end, the Office works with ESA members, other professional societies, and public agencies to develop workshops and publications on a variety of topics related to ecosystem sustainability, global change, and biodiversity. Current ESA Science Office projects include a series of reports on biofuels and sustainability; data sharing and archiving initiatives; leadership of ESA's Emerging Issues Conference series; and a workshop on financial sustainability of infrastructure for biological research. Before assuming his current position in 2003, Dr. Duke worked for fourteen years in environmental consulting, managing preparation of environmental impact statements and ecological risk assessments for Department of Defense and Department of Energy facilities. He previously held postdoctoral positions at Northeastern University, Wellesley College, and Harvard University. Dr. Duke currently serves; the Steering Committee of the Sustainable Rangelands Roundtable; and the Service to the Scientific Community Working Group of the American Association for the Advancement of Science (AAAS) Science and Human Rights Coalition. He has previously served on the U.S. Environmental Protection Agency's Board of Scientific Counselors, has been elected as a member of the Sigma Xi Scientific Research Society, and is an ESA Certified Senior Ecologist.

Horvath, Arpad

University of California, Berkeley

Dr. Arpad Horvath is an Associate Professor in the Engineering and Project Management Program in the Department of Civil and Environmental Engineering at University of California, Berkeley. He is also Director of UC Berkeley's Consortium on Green Design and Manufacturing, and Director of UC Berkeley's Engineering and Business for Sustainability certificate program. Dr. Horvath holds a Diploma in Civil Engineering from the Technical University of Budapest (Hungary), and an M.S. and Ph.D. in Civil Engineering from Carnegie Mellon University. His research focuses on life-cycle environmental and economic assessment of products, processes, and services, particularly of civil infrastructure systems and the built environment. He recently served on a National Research Council committee studying the environmental impacts of wind energy projects. Dr. Horvath is currently doing research with five Ph.D. students and three postdoctoral researchers. He is Associate Editor of the J. of Infrastructure Systems of the American Society of Civil Engineers, and on the Editorial Board of the J. of Industrial Ecology of the International Society for Industrial Ecology. Dr. Horvath was Conference Co-chair of the Institute of Electrical and Electronics Engineers (IEEE) International Symposium on Electronics and the Environment in 2000, 2001 and 2007, and Program Co-chair in 1999, 2006, 2008, and 2009. He will be Conference Chair of the 6th International Conference on Industrial Ecology in 2011. Dr. Horvath is a recipient of the American Society of Civil Engineer's Walter L. Huber Civil Engineering Research Prize, the Laudise Prize "for outstanding achievements in industrial ecology by a young scientist or engineer" by the International Society for Industrial Ecology, the National Science Foundation (NSF) CAREER award, four-time recipient of the AT&T Foundation Industrial Ecology Faculty Fellowship, and co-recipient of the NSF-Lucent Technologies Industrial Ecology Fellowship.

LaPoint, Thomas

University of North Texas

Dr. Thomas La Point is the former director of the Institute of Applied Sciences at the University of North Texas and is a Professor in the Department of Biological Sciences. He holds B.S. in Zoology and Physiology from the University of Wyoming, an M.S. in Population Biology from the University of Houston, and a Ph.D. in Aquatic Biology from the Department of Biological Sciences at Idaho State University. Dr. La Point's primary research and teaching interests include contaminant effects on freshwater aquatic communities, specifically in how metals and organic contaminants affect benthic population dynamics and freshwater fisheries. He has published on ecosystem measures, contaminant bioaccumulation, and sub-lethal effects on aquatic populations. Dr. La Point has served on several National Science Foundation, U.S. Environmental Protection Agency (EPA), and U.S. Geological Survey panels to review proposals submitted for funding. He is on the editorial board for *Chemosphere and Environmental Toxicology and Pharmacology* and has served as Editor of the Society of Environmental Toxicology and Chemistry (SETAC) Special Publication Series. Dr. La Point's current research is funded by EPA, U.S. Army Corps of Engineers, and the City of Denton, TX.

Mihelcic, James

University of South Florida

James R. Mihelcic is a Professor of Civil and Environmental Engineering and State of Florida 21st Century World Class Scholar at the University of South Florida. He holds a B.S. in Environmental Engineering from Pennsylvania State University (1981), and an M.S. (1985) and Ph.D. (1988) in Civil Engineering from Carnegie Mellon University. Dr. Mihelcic directs the Peace Corps Master's International Program in Civil & Environmental Engineering (<http://cee.eng.usf.edu/peacecorps>). His research interests are centered around sustainability, specifically understanding how global stressors such as climate, land use, and urbanization influence water resources, water quality, and provision of sanitation. Dr. Mihelcic is a past president of the Association of Environmental Engineering and Science Professors (AEESP) and is currently a Board Certified Environmental Engineering Member and Board Trustee with the American Academy of Environmental Engineers (AAEE). He is lead author for 3 textbooks: *Fundamentals of Environmental Engineering* (John Wiley & Sons, 1999); *Field Guide in Environmental Engineering for Development Workers: Water, Sanitation, Indoor Air* (ASCE Press, 2009); and, *Environmental Engineering: Fundamentals, Sustainability, Design* (John Wiley & Sons, 2010).

Newton, James

Kent County, Maryland

Mr. James Newton is currently the environmental program manager for Kent County, Delaware, and leads the wastewater treatment plant in its effort to become the first wastewater treatment plant in the country to be certified to the International Standards Organization 14001 standard, the Occupational Health & Safety Advisory Services (OHSAS) 18001 standard, and the National Biosolids Partnership's Environmental Management Systems (EMS) standard. He holds a .B.S. (1971) and M.S. (1974) in Engineering Science and an M.S. in Civil Engineering (1976) from the State University of New York at Buffalo. Mr. Newton has over 35 years experience as an environmental engineer, and has served on the Water Environment Federation's EMS Committee. He led the effort to develop a sustainability technical practice update and is currently a chapter author for a new Water Environment Federation (WEF) publication establishing a sustainability reporting standard. Mr. Newton has had over 25 feature articles published on a variety of environmental topics in *Pollution Engineering* and other magazines, has had eight books published, and has also served as Field Editor for *Pollution Engineering* between 1985-1992. He was a committee chairman for the American Academy of Environmental Engineers' sustainability specialty certification tests. Mr. Newton is a Professional Engineer and a Board Certified Environmental Engineer.

Orlov, Alexander

State University of New York, Stony Brook

Dr. Alexander Orlov is an Assistant Professor of Materials Science and Engineering at State University of New York, Stony Brook. He is also a faculty member of the Consortium for Interdisciplinary Environmental Research and affiliate faculty of Chemistry Department. Dr. Orlov holds a B.E. and M.E. in Engineering from the National Technical University, Kiev, Ukraine (1995), an M.S. in Environmental Engineering from the University of Michigan (1977), an M.S. (2000) and Ph.D. (2005) in Chemistry from the University of Cambridge (UK), and a Diploma in Economics from the London School of Economics. Dr. Orlov's major research and teaching activities are in development of novel materials for environmental protection, environmental chemistry and engineering, materials science, sustainable development, environmental aspects of energy production and environmental nanotechnology areas. Previously he was a Research Fellow in Science and Engineering at the University of Cambridge/King's College, UK. Dr. Orlov's major research and teaching activities are in development of novel materials for environmental protection, environmental chemistry and engineering, materials science, sustainable development, environmental aspects of energy production and environmental nanotechnology areas. Previously he was a Research Fellow in Science and Engineering at the University of Cambridge/King's College, UK. Dr. Orlov is appointed by the UK Secretary of State to advise the Government on such environmental issues as hazardous substances and environmental impact of nanotechnology. Previously, he was a member of the UK Conservative Party Task Force charged with a development of the Science Policy for the next Conservative Government. Dr. Orlov's research experience also served him in his position as consultant to several U.S. Congressmen, the European Union (EU) Commission and the Ukrainian Ministry of Ecology and Natural Resources. He is/was reviewer of grant proposals submitted to the National Science Foundation (US), the EU Commission, the Engineering and Physical Sciences Research Council (UK), the Natural Environment Research Council (UK), the American Chemical Society (US) and various other agencies. In addition to the above mentioned activities, Dr. Orlov is also contributing to the work of the United Nations Environmental Program (Lead Author for the Global Environmental Outlook) and the UK Parliamentary and Scientific Committee. Alexander's opinions, interviews and comments appeared in Nature, BBC, Daily Telegraph and Cambridge Evening News. He is a recipient of National Endowment for Science Technology and Arts CRUCIBLE award (UK) focused on developing skills in communicating science to general public and policy makers.